UNITED STATES
DEPARTMENT OF THE INTERIOR

TOP CUB
AND
SUPER CUB SERIES

SCHEDULED MAINTENANCE CHECKS

Includes Cub Models: CC18-180
PA-18

NOTE: THE INSPECTION WORK SHEETS / PACKAGES IN THIS DOCUMENT ARE FOR THE 'UNITED STATES DEPARTMENT OF THE INTERIOR' AIRCRAFT ONLY.

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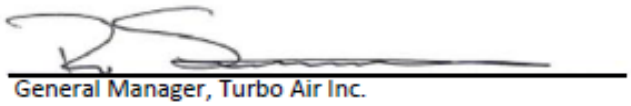
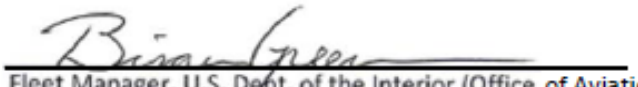
This Top Cub and Super Cub Series inspection program document has been compiled to meet or exceed the requirements of the Department of the Interior - Departmental Manual (Aviation Policy) and Code of Federal Regulations, Title 14, Chapter 1, Subchapter C, Part 43 Appendix D. – 'Scope and detail of items (as applicable to the particular aircraft) to be included in Annual and 100 Hour Inspections'. FAR Part 43.15 (c) provides the authority for Dept. of the Interior as owner/operator to issue a checklist of its own design to comply with or exceed the contents of FAR Part 43 Appendix D. Dept. of the interior has incorporated and/or condensed all line items from the relevant Top Cub and Super Cub Series Maintenance Manuals to include inspections based on hours, annual, and multi-year based structural inspections. Compilation of this document was carried out by Turbo Air Inc. of 4000 S. Orchard St. Boise Idaho 83705 for the Department of the Interior (Office of Aviation Services) 300 E Mallard Drive. Ste 200 Boise, Idaho 83705. Under the guidance of Part 91.403, 405, 409, 415 and Part 43.15(a) (1) & (c) FAA approval is not required (or offered) for issue of this document. This is a controlled document and amendment status shall be updated on the record of revisions page.

Personnel carrying out maintenance on Dept. of the Interior aircraft and using this inspection program must ensure that by signing for the listed tasks, they have complied with the latest revision of CFR Part 43 Appendix D.

This is to certify that the contents of this inspection program have been condensed from the relevant Top Cub and Super Cub Series Inspection programs and meets or exceeds the requirements of CFR Part 43 Appendix D at the time of writing.



General Manager, Turbo Air Inc. Date 24-Nov-15



Fleet Manager, U.S. Dept. of the Interior (Office of Aviation Services) Date 24-Nov-15

DOI - TOP CUB AND SUPER CUB SERIES
RECORD OF REVISIONS

REVISION No.	PAGE NUMBER	ISSUE DATE	INSERTION DATE	INSERTED BY	REMOVAL DATE	REMOVED BY

DOI - TOP CUB AND SUPER CUB SERIES
RECORD OF TEMPORARY REVISIONS

REVISION No.	PAGE NUMBER	ISSUE DATE	INSERTION DATE	INSERTED BY	REMOVAL DATE	REMOVED BY

INSTRUCTIONS

DOI – TOP CUB AND SUPER CUB SERIES – SCHEDULED MAINTENANCE CHECKS

THE INSPECTION WORK SHEETS / PACKAGES IN THIS DOCUMENT ARE FOR THE
'UNITED STATES DEPARTMENT OF THE INTERIOR' AIRCRAFT ONLY.

Explanation of Terms

Hourly Inspections

50 Hr. Inspection	Every 50 Hrs.		
100 Hr. Inspection	Every 100 Hrs.	Includes	50 Hr. Inspections
Annual Inspection	Every 12 Months	Includes	50 Hr. & 100 Hr. Inspections
500 Hr. Inspection	Every 500 Hrs.		
2 Year Inspection	Every 2 Years		

DOI – TOP CUB AND SUPER CUB SERIES – SCHEDULED MAINTENANCE CHECKS

Inspection Intervals

Hourly: All required inspections may be completed up to +10% percent of their due time (i.e.: A 50 hour inspection may be completed between 50 and 55 hours time in service). Flight beyond the due time must be approved by the administrator. Flight beyond the 10 % limit is not permitted for any reason.

All inspections shall be done at the next standard interval (i.e.: 50hrs) from when the previous inspection was due provided that inspection was completed within the +10% time due. The 50 hr. check is due at 50 hrs. and the next is due at 100hrs. All inspections will be handled as described above. The +10% is to be used primarily for ferry flights to where maintenance can be performed.

Calendar: All required inspections may be completed up to their calendar due time. Flight beyond the calendar time is not permitted for any reason.

Note: Selected items that are normally controlled separately (on computer) (i.e.: overhauls, component function checks, etc.) have been omitted from this inspection work package and must be controlled separately. See computerized maintenance program for “Controlled Items”.

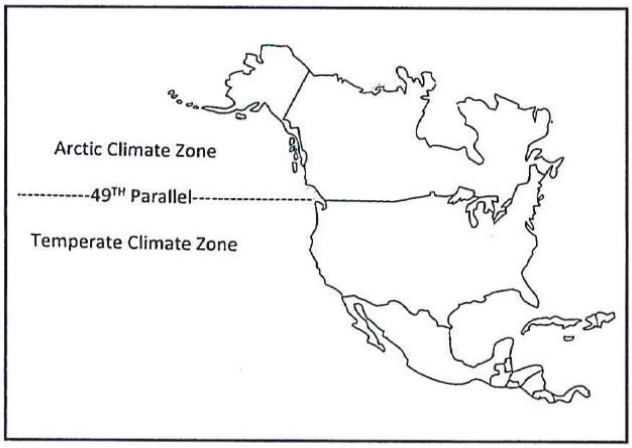
Note: This inspection package must be updated as new revisions to the maintenance program are issued.

Inspections: To be completed in accordance with this manual.

Repairs: To be completed in accordance with the appropriate Kodiak Maintenance Manual.

Climate Zone Supplemental Inspections and Servicing

Before commencing inspection and servicing, it must be confirmed which climate zone the subject aircraft is operated in. If the aircraft is above the 49th parallel it is in the Arctic Zone. If the aircraft is below the 49th parallel it is in the Temperate zone. The extra line items listed for the appropriate climate zone shall be added to the servicing, the not applicable climate zone line items shall be noted as N/A in the sign-off block.



Dept. of the Interior Climate Zone Map

Acronyms in use

SID -	Supplemental Inspection Document	STC -	Supplemental Type Certificate
CPCP -	Corrosion Prevention and Control Program	PSE -	Principle Structural Element
NDI -	Non Destructive Inspection	N/A -	Not Applicable (see MECH Block D on next page)
ICA -	Instruction for Continued Airworthiness	OEM -	Original Equipment Manufacturer

Inspection Sheet - Block Explanation

Example

ACFT TYPE		EXAMPLE INSPECTION REQUIREMENTS	MECH	INSP
ALL	1	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	2	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	3	FLOAT INSTALLATION - Check float exterior for damage, wrinkled metal, corrosion, paint loss, etc. Inspect strut attach fittings, spreader bars & interior float structure.	N/A	
A	**B**	**C**	**D**	**E**

Block A ALL - All Top Cub and Super Cub Series aircraft.
TOP CUB - All Top Cub Series aircraft.
SUPER CUB - All Super Cub Series aircraft

Block B Each inspection and task is given a line item number in the 2nd column.

Block C Describes inspection tasks.

Block D Mechanic sign-off block.
N/A (Not Applicable) - should be used if the inspection cannot or should not be carried out due to (but not limited to) -

1. Serial number range.
2. Unit or option not installed on aircraft.
3. Previously complied with.
4. Climate zone applicability.

A note beside the N/A to indicate the reason for it is recommended.

Block E The (white) INSP block should be initialed by an inspector who witnessed the task carried out by the mechanic and completed a final inspection and/or functional check in accordance with the line item requirements and relevant technical publications. The inspector shall not initial the INSP block until after the mechanic has initialed the MECH block. In a block that requires a Maintenance Inspector, he shall initial the white INSP block whenever N/A has been entered in the MECH block.

UNITED STATES DEPARTMENT OF THE INTERIOR

TOP CUB AND SUPER CUB SERIES

50 HOUR SCHEDULED MAINTENANCE CHECKS

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Inspection Sheet - Block Explanation

Example

ACFT TYPE		EXAMPLE INSPECTION REQUIREMENTS	MECH	INSP
ALL	1	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	2	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	3	FLOAT INSTALLATION - Check float exterior for damage, wrinkled metal, corrosion, paint loss, etc. Inspect strut attach fittings, spreader bars & interior float structure.	N/A	
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Inspections: To be completed in accordance with this manual.

Repairs: To be completed in accordance with the appropriate Kodiak Maintenance Manual.

Acronyms in use

SID -	Supplemental Inspection Document	STC -	Supplemental Type Certificate
CPCP -	Corrosion Prevention and Control Program	PSE -	Principle Structural Element
NDI -	Non Destructive Inspection	N/A -	Not Applicable (see MECH Block D above)
ICA -	Instruction for Continued Airworthiness	OEM -	Original Equipment Manufacturer

DOI - TOP CUB AND SUPER CUB SERIES - 50 HOUR INSPECTION

'N' NUMBER:_____ MODEL: _____ AIRCRAFT S/N:_____

TACH HOURS:_____ AIRCRAFT TOTAL TIME:_____ ENG. SMOH:_____ PROP SMOH:_____

ACFT TYPE		50 HOUR INSPECTION REQUIREMENTS Visual Pre-Inspection	MECH	INSP
ALL	1	Visual Inspection of Aircraft		

ACFT TYPE		50 HOUR INSPECTION REQUIREMENTS Operational/Functional Pre/Post-Inspection	MECH		INSP
			PRE	POST	
ALL	2	FLIGHT CONTROLS - Check controls operate in the correct direction. Ensure movement through full range of travel without binding and there is no excessive friction.			
ALL	3	FLAPS - Lower flaps to the first and second notches. Ensure the notches hold.			
ALL	4	ELEVATOR TRIM CONTROLS - Ensure it operates through full range of travel without binding.			
ALL	5	ENGINE CONTROLS - Ensure movement through full range of travel without binding.			
ALL	6	ALTIMETER - Must indicate within 50 feet of field elevation when set to correct barometric pressure.			
ALL	7	VERTICAL SPEED INDICATOR (VSI) - Must indicate zero.			
ALL	8	BATTERY MASTER SWITCH - Switch On. Verify Voltage. Flag on turn coordinator should disappear.			
ALL	9	START ENGINE - Start engine using procedure in Pilot's Operating Handbook, Section 4.			
ALL	10	SET 1700 RPM - Perform magneto check. Drop not to exceed 175 RPM or 50 RPM differential between magnetos. There should be no engine roughness.			
ALL	11	PULL CARBURETOR HEAT KNOB - Engine RPM should show a slight drop.			
ALL	12	APPLY A LOAD TO THE ELECTRICAL SYSTEM (e.g. switch on landing lights or pitot heat) - Observe that voltage remains constant and amperage increases when load is applied.			
ALL	13	CHECK VACUUM PRESSURE (if vacuum pump is installed) - Normal reading is between 4.8 and 5.2 inches of mercury.			
ALL	14	Check the radio for proper Nav and Com operation.			
ALL	15	Check the Transponder for proper operation.			
ALL	16	Verify proper ELT operation using the remote switch.			
ALL	17	SET THROTTLE TO IDLE - Engine should idle between 500 and 750 RPM.			
ALL	18	Set 1000 RPM.			
ALL	19	Turn engine off by slowly pulling mixture control. **NOTE:** An increase in RPM prior to the control reaching idle cut-off position indicates proper air fuel mixture.			

ACFT TYPE		50 HOUR INSPECTION REQUIREMENTS Engine Group	MECH	INSP
ALL	20	MUFFLER, HEAT EXCHANGER, AND HOSES - Remove shroud and conduct a visual inspection.		

ACFT TYPE		50 HOUR INSPECTION REQUIREMENTS Landing Gear Group	MECH	INSP
ALL	21	Lubricate per Figure 12-20-01 below.		

ACFT TYPE		50 HOUR INSPECTION REQUIREMENTS Return To Service	MECH	INSP
ALL	22	Verify Oil Level is 7- 8 Quarts.		

LUBRICATION CHART		
ITEM	SUGGESTED	SPEC
ENGINE		
Engine Oil	Appropriate for temperature	See 12-00 Table 1
Spark Plug Thread Lubricant	Champion Aerospace # 2612	
Oil Filter Gasket	Dow Corning 4 Lubricant	MIL-S-8660C
Engine Controls	LPS 2	MIL-C-16173E GRADE 3 CLASS I
COCKPIT		
Hydraulic Fluid (Brake)	Any Brand	MIL-H-5606
Control Stick Pivot Points Torque Tube Bearings	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Elevator Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Pedal Pivot Points Brake Pedal Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Handle Shaft	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Door Hinges	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
Fuel Selector O-Rings	Dow Corning 4 Lubricant	MIL-S-8660C
FUSELAGE		
Flap Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Stabilizer Jackscrew	Mobilgrease 28	MIL-G-81322E
Trim Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
LANDING GEAR		
Main Landing Gear Shock Strut Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Landing Gear Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Wheel Bearings	Mobilgrease 28	MIL-G-81322E
Tail Wheel Swivel	Mobilgrease 28	MIL-G-81322E
Tail Wheel Bearings	Mobilgrease 28	MIL-G-81322E
EMPENNAGE		
Stabilizer Tube Liners	Mobilgrease 28	MIL-G-81322E
Elevator Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
WING		
Aileron and Flap Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Bellcrank, Pushrod and Hinge Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I

Figure 12-20-1 - Lubrication Chart

Item	Specifications			Capacity
Fuel	100 LL or 100			50 U.S. Gallons Total 44 U.S. Gallons Usable
Oil (See note below)	Average Ambient Temperature	J-1966 SAE Grades Mineral Grades	J-1899 SAE Grades Ashless Dispersant	8 Quarts
	All temperatures	----	15W-50 or 20W-50	
	Above 80°F	60	60	
	Above 60°F	50	40 or 50	
	30°F to 90°F	40	40	
	0°F to 70°F	30	30, 40, or 20W-40	
	Below 10°F	20	30 or 20W-30	
Hydraulic Fluid	MIL-H-5606			As required
Main Tire Pressure	Goodyear 8.50 x 6-6		Dry Air	18 ± 2 psi
	Goodyear 26 x 10.5 x 6		Dry Air	12 ± 2 psi
Tail Wheel Tire	Scott 3200		Dry Air	38 ± 5 psi

12-00 Table 1 - Fuel, Oil, Brake Fluid, and Tire Pressure

NOTE

The engine must be operated on mineral oil during the first 50 hours of operation, or until oil consumption has been stabilized. Additive part number LW-16702 may be used on Lycoming engines. For further information refer to latest revision of Textron Lycoming Service Instruction SI No. 1014 and Superior report SVOM01.

DOI - TOP CUB AND SUPER CUB SERIES - 50 HOUR INSPECTION

ZONE	ACFT TYPE		SUPPLEMENTAL 50 HOUR INSPECTION REQUIREMENTS	MECH	INSP
ARCTIC	ALL	23	Floats - Inspect as required by OEM ICAs.		
ARCTIC	ALL	24	Skis - Inspect as required by OEM ICAs.		
ARCTIC	ALL	25	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
ARCTIC		26			
ARCTIC		27			
ARCTIC		28			
ARCTIC		29			
ARCTIC		30			
ARCTIC		31			
ARCTIC		32			
ARCTIC		33			
ARCTIC		34			
ARCTIC		35			
ARCTIC		36			
TEMPERATE	ALL	37	Floats - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	38	Skis - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	39	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
TEMPERATE		40			
TEMPERATE		41			
TEMPERATE		42			
TEMPERATE		43			
TEMPERATE		44			
TEMPERATE		45			
TEMPERATE		46			
TEMPERATE		47			
TEMPERATE		48			
TEMPERATE		49			
	ALL	50	All panels opened for the inspection are closed and secure.		
	ALL	51	Run aircraft engine and leak check.		

DOI - TOP CUB AND SUPER CUB SERIES - 50 HOUR INSPECTIONS

NOTES:

ASSURE PROPER MAINTENANCE RECORD ENTRIES HAVE BEEN MADE IAW 14 CFR 43.9

THE AIRCRAFT RECORDS CONSIST OF THE FOLLOWING;

1. AIRCRAFT, ENGINE & PROPELLER HARD LOGS.
2. ALL FORM 337'S, MAJOR REPAIR & ALTERATION.
3. COMPLIANCE LIST OF ALL PERTINENT AIRWORTHINESS DIRECTIVES.
4. MAINTENANCE SCHEDULE- LIST OF REQUIRED SPECIAL INSPECTIONS, COMPONENT OVERHAUL & TIME-LIFE LIMITS.
5. CURRENT & HISTORICAL WEIGHT & BALANCE STATUS & EQUIPMENT LIST
7. MINIMUM EQUIPMENT LIST AS REQUIRED.
8. SPECIAL FLIGHT AUTHORIZATIONS AND/OR SUPPLEMENTS

UNITED STATES DEPARTMENT OF THE INTERIOR

TOP CUB AND SUPER CUB SERIES

100 HOUR SCHEDULED MAINTENANCE CHECKS
50 HOUR INSPECTION INCLUDED WITHIN THIS 100 HOUR INSPECTION CHECKLIST

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Inspection Sheet - Block Explanation

Example

ACFT TYPE		EXAMPLE INSPECTION REQUIREMENTS	MECH	INSP
ALL	1	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	2	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	3	FLOAT INSTALLATION - Check float exterior for damage, wrinkled metal, corrosion, paint loss, etc. Inspect strut attach fittings, spreader bars & interior float structure.	N/A	
A	**B**	**C**	**D**	**E**

Block A ALL - All Top Cub and Super Cub Series aircraft.
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Block C Describes inspection tasks.

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CPCP -	Corrosion Prevention and Control Program	PSE -	Principle Structural Element
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ICA -	Instruction for Continued Airworthiness	OEM -	Original Equipment Manufacturer

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTION

100 HOUR INCLUDES ALL 50 HOUR INSPECTIONS

'N' NUMBER:_____ MODEL: _____ AIRCRAFT S/N:_____

TACH HOURS:_____ AIRCRAFT TOTAL TIME:_____ ENG. SMOH:_____ PROP SMOH:_____

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Visual Pre-Inspection	MECH	INSP
ALL	1	Review compliance with current Federal Aviation Regulations, including visual inspection of: - Aircraft Flight Manual - Aircraft Log Book - Registration Certificate - Weight and Balance Record - Aircraft Equipment List - FAA Airworthiness Directives - Cub Crafters' Service Documents - ICAs		
ALL	2	Each person performing this inspection shall, before that inspection, remove or open all necessary inspection plates, access doors, fairing, and cowling. He shall thoroughly clean the aircraft and aircraft engine.		
ALL	3	Visual Inspection of Aircraft		
ALL	4	Check Oil Quantity.		
ALL	5	Conduct operational check as instructed below.		
ALL	6	PERFORM WALK-AROUND TO DETECT FLUID LEAKS - Make record of all malfunctions and discrepancies		

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Operational/Functional Pre/Post-Inspection	MECH		INSP
			PRE	POST	
ALL	7	FLIGHT CONTROLS - Check controls operate in the correct direction. Ensure movement through full range of travel without binding and there is no excessive friction.			
ALL	8	FLAPS - Lower flaps to the first and second notches. Ensure the notches hold.			
ALL	9	ELEVATOR TRIM CONTROLS - Ensure it operates through full range of travel without binding.			
ALL	10	ENGINE CONTROLS - Ensure movement through full range of travel without binding.			
ALL	11	ALTIMETER - Must indicate within 50 feet of field elevation when set to correct barometric pressure.			
ALL	12	VERTICAL SPEED INDICATOR (VSI) - Must indicate zero.			
ALL	13	BATTERY MASTER SWITCH - Switch On. Verify Voltage. Flag on turn coordinator should disappear.			
ALL	14	START ENGINE - Start engine using procedure in Pilot's Operating Handbook, Section 4.			
ALL	15	SET 1700 RPM - Perform magneto check. Drop not to exceed 175 RPM or 50 RPM differential between magnetos. There should be no engine roughness.			
ALL	16	PULL CARBURETOR HEAT KNOB - Engine RPM should show a slight drop.			
ALL	17	APPLY A LOAD TO THE ELECTRICAL SYSTEM (e.g. switch on landing lights or pitot heat) - Observe that voltage remains constant and amperage increases when load is applied.			
ALL	18	CHECK VACUUM PRESSURE (if vacuum pump is installed) - Normal reading is between 4.8 and 5.2 inches of mercury.			
ALL	19	Check the radio for proper Nav and Com operation.			
ALL	20	Check the Transponder for proper operation.			
ALL	21	Verify proper ELT operation using the remote switch.			
ALL	22	SET THROTTLE TO IDLE - Engine should idle between 500 and 750 RPM.			

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTION

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Operational/Functional Pre/Post-Inspection Continued	MECH		INSP
			PRE	POST	
ALL	23	Set 1000 RPM.			
ALL	24	Turn engine off by slowly pulling mixture control. **NOTE:** An increase in RPM prior to the control reaching idle cut-off position indicates proper air fuel mixture.			

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Engine Group	MECH	INSP
ALL	25	ENGINE COWL - Remove, clean and check for cracks distortion, loose, or missing fasteners		
ALL	26	STUDS AND NUTS - For improper torqueing and obvious defects.		
ALL	27	ENGINE OIL - Drain.		
ALL	28	SUCTION OIL STRAINER - Visual Inspection for Foreign Particles.		
ALL	29	OIL TEMPERATURE SENDER UNIT - Check for Leaks and Security.		
ALL	30	ENGINE OIL - Fill with 8 Quarts IAW appropriate manual.		
ALL	31	MUFFLER, HEAT EXCHANGER, AND HOSES - Remove shroud and conduct a visual inspection.		
ALL	32	OIL LINES AND FITTINGS - Check for Leaks, Security, Chafing, Dents, and Cracks		
ALL	33	OIL RADIATOR - Clean and Check Cooling Fins for Damage		
ALL	34	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	35	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	36	CYLINDERS - Visual Inspection for Cracked or Broken Fins		
ALL	37	ELECTRICAL WIRING TO ENGINE AND ACCESSORIES - Conduct a visual inspection. Replace damaged wires and clamps. Inspect terminals for security and cleanliness.		
ALL	38	IGNITION HARNESS AND INSULATORS - Visually inspect for high tension leaks and continuity.		
ALL	39	MAGNETOS - Check magneto to engine timing and adjust, if needed.		
ALL	40	MAGNETOS - Inspect plug wires and P-lead for condition and security. Verify vent hole is clean and clear of obstructions.		
ALL	41	INDUCTION AIR FILTER - Remove, Inspect, and Clean. Replace when filter is more than 50% covered by foreign material		
ALL	42	CARBURETOR - Drain and clean inlet line fuel strainer.		
ALL	43	INDUCTION AIR BOX - Visually inspect for condition.		
ALL	44	INTAKE SEALS - Visually inspect for leaks and clamps for tightness.		
ALL	45	FLEXIBLE FUEL AND PRIMER LINES - Visually inspection for condition.		
ALL	46	THROTTLE, MIXTURE CONTROLS - Visually inspect for proper travel and operating condition.		
ALL	47	EXHAUST STACKS, CONNECTIONS, GASKETS AND BRACES - Visually Inspect and replace exhaust gaskets, as required.		
ALL	48	OIL BREATHER TUBE - Visually Inspect for obstructions and security.		
ALL	49	CRANKCASE - Visually inspect for cracks, leaks, and security of case bolts.		
ALL	50	ENGINE MOUNTS - Visually Inspect for cracks, distortion and security.		

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTION

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Engine Group Continued	MECH	INSP
ALL	51	ENGINE BAFFLES - Visually inspect for damage and security.		
ALL	52	RUBBER ENGINE MOUNT BUSHINGS - Visually inspect for deterioration.		
ALL	53	FIREWALL AND SEALS - Visually inspect.		
ALL	54	CABIN HEATER CONTROL - Visually inspect.		
ALL	55	ALTERNATOR - Visually inspect for condition, security, and tension of drive belt.		
ALL	56	STARTER - Visually Inspect for condition and security.		
ALL	57	ENGINE CONTROLS - Check for defects, travel from stop to stop, improper safetying and lubricate.		
ALL	58	ENGINE COWL - Install, ensuring good clearance.		
ALL	59	VACUUM PUMP FILTER (if optional vacuum pump is installed) - Visually Inspect for excessive contamination.		
ALL	60	ALL SYSTEMS - Check for improper installation poor condition, apparent and obvious defects, and insecurity of attachment.		
ALL	61	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Propeller Group – Metal	MECH	INSP
THIS INSPECTION SHEET IS APPLICABLE TO THE SENSENICH PROPELLER MANUFACTURING CO. MODEL 76EM8 PROPELLER AND MCCAULEY PROPELLER SYSTEMS 1A200/FA82.				
ALL	62	SPINNER AND BULKHEADS - Visually inspect for damage and security.		
ALL	63	PROPELLER BLADES - Visually inspect for nicks and cracks.		
ALL	64	SPINNER MOUNTING BRACKETS - Visually inspect for damage and security.		
ALL	65	PROPELLER MOUNTING BOLTS - Visually inspect. If safety wire is broken, check torque.		
ALL	66	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Cabin Group	MECH	INSP
ALL	67	DOORS - Visually Inspect for damage, operation, and security.		
ALL	68	DOOR LATCHES AND HINGES - Visually inspect and lubricate.		
ALL	69	CABIN WINDOWS AND WINDSHIELD - Clean and visually inspect for cracking, crazing, and general condition.		
ALL	70	UPHOLSTERY - Visually inspect for tears and fraying.		
ALL	71	SEAT BELTS, INERTIA REEL, AND HARNESSES - Visually inspect.		
ALL	72	PILOT SEAT - Visually inspect and verify latch security.		
ALL	73	CONTROL BUSHINGS, CABLES, AND PULLEYS (including control stick and torque tube) - Visually inspect. Lubricate bearing surfaces only.		
ALL	74	ELEVATOR TRIM - Visually inspect complete system. Conduct operational check and lubricate shaft only.		

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTION

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Cabin Group Continued	MECH	INSP
ALL	75	FUEL LINES AND GAUGES - Visually inspect for leaks, chaffing, obstruction, security, and general condition.		
ALL	76	FLAP LEVER - Conduct operational check, visually inspect ratchet and latch through the range of operation, and lubricate shaft.		
ALL	77	RUDDER PEDALS - Conduct operational check and lubricate.		
ALL	78	THROTTLE - Verify freedom of movement and ensure the throttle contacts engine stops.		
ALL	79	MIXTURE - Verify freedom of movement and ensure it contacts engine stops.		
ALL	80	CARBURETOR HEAT CONTROL - Verify freedom of movement and ensure full travel.		
ALL	81	CABIN HEATER- Verify freedom of movement and ensure full travel.		
ALL	82	EMERGENCY LOCATOR TRANSMITTER - Conduct functional inspection.		
ALL	83	PLACARDS AND INSTRUMENT MARKINGS - Visually inspect for conformity, security, and condition.		
ALL	84	INSTRUMENT PANEL - Visually inspect for security of lines and wiring.		
ALL	85	PITOT SYSTEM - Visually inspect lines for leaks and chaffing. Conduct an operational inspection of heater. **CAUTION: PITOT TUBE WILL BECOME VERY HOT AND COULD CAUSE BURNS.**		
ALL	86	STROBE, LANDING, TAXI AND NAVIGATION LIGHTS - Visually inspect for condition and security. Conduct an operational inspection.		
ALL	87	STALL WARNING - Conduct operational inspection.		
ALL	88	ANTENNAS - Visually inspect for condition and security.		
ALL	89	BRAKE CYLINDERS AND PARKING VALVES - Conduct operational and visual inspections for leaks. Fill with fluid, as required.		
ALL	90	FIRE EXTINGUISHER (Model RT A400) - Visually inspect extinguisher, mounting bracket, and safety seal. Weigh unit and replace if gross weight is less than 17.6 oz.		
ALL	91	INTERIOR LIGHTS - Conduct a functional check of instrument, placard and post lights.		
ALL	92	GENERALLY - Inspect for uncleanliness and loose equipment that might foul the controls.		
ALL	93	RADIO AND ELECTRONIC EQUIPMENT - Check for improper installation and insecure mounting.		
ALL	94	WIRING AND CONDUITS - Check for improper routing, insecure mounting, and obvious defects.		
ALL	95	BONDING AND SHIELDING - Check for improper installation and poor condition.		
ALL	96	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Fuselage and Empennage Group	MECH	INSP
ALL	97	FABRIC AND FINISH - Visually inspect for cracks and deterioration.		
ALL	98	BATTERY, BOX, AND CABLES - Conduct a visual inspection.		
ALL	99	ELT - Check for proper installation and condition of battery and antenna. Refer to ACK Technologies E-01 Installation & Ops Manual or Artex ME-406 Installation and Ops Manual.		
ALL	100	FUEL LINES - Visually inspect for security and damage.		
ALL	101	FUSELAGE FRAME TUBING, LONGERONS, AND STRINGERS - Conduct visual inspection for damage and corrosion.		
ALL	102	RUDDER, ELEVATOR AND STABILIZER TRIM CABLES, TURNBUCKLES, GUIDES, AND PULLEYS - Inspect for tension, safety, wear, damage, corrosion, and operation.		

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTION

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Fuselage and Empennage Group Continued	MECH	INSP
ALL	103	STABILIZER YOKE AND SCREW - Visually inspect for end play, security, and excessive wear.		
ALL	104	RUDDER, STABILIZER, AND ELEVATOR STRUCTURES - Visually inspect for damage.		
ALL	105	RUDDER HINGE PINS AND BUSHINGS - Visually inspect for excess wear, and corrosion.		
ALL	106	ELEVATOR HINGE PINS AND BUSHINGS - Visually inspect for excess wear, and corrosion.		
ALL	107	STABILIZER BRACE WIRES - Visually inspect for corrosion, tightness, and safety.		
ALL	108	Lubricate per Figure 12-20-01 below.		
ALL	109	SYSTEMS AND COMPONENTS - Check for improper installation, apparent defects, and unsatisfactory operation.		
ALL	110	VORTEX GENERATORS - (If Applicable) Check for missing, replace as necessary IAW applicable manual.		
ALL	111	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Wing Group	MECH	INSP
ALL	112	FABRIC AND FINISH - Visually inspect for poor general condition, fabric or skin deterioration, evidence of failure, and insecurity of attachment.		
ALL	113	AILERON, FLAP, AND WING STRUCTURE - Visually inspect for damage.		
ALL	114	FUEL TANKS, CAPS, SCUPPER RINGS, AND LINES - Visually inspect for damage, leaks and deterioration.		
ALL	115	WING ATTACHMENT BOLTS - Visually inspect for security.		
ALL	116	LIFT AND JURY STRUTS - Visually inspect for security.		
ALL	117	LIFT STRUT FORKS - Visually inspect for damage and security.		
ALL	118	AILERON AND FLAP CABLES, TURNBUCKLES, GUIDES, AND PULLEYS - Visually inspect for safety, damage, corrosion, and operation.		
ALL	119	AILERONS ATTACHMENTS AND BRACKETS - Visually inspect for tightness and damage.		
ALL	120	AILERON HINGE PINS AND BLOCKS - Visually inspect for excess wear and corrosion.		
ALL	121	FLAP ATTACHMENTS AND BRACKETS - Visually inspect for tightness and damage.		
ALL	122	FLAP BELLCRANK, CONTROL ROD, SPRING PINS, AND BLOCKS - Conduct a visual inspection.		
ALL	123	Lubricate per Figure 12-20-01 below.		
ALL	124	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		
ALL	125	VORTEX GENERATORS - (If Applicable) Check for missing, replace as necessary IAW applicable manual.		

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Landing Gear Group	MECH	INSP
ALL	126	FABRIC AND FINISH - Visual inspection for cracks and deterioration.		
ALL	127	JACK AIRPLANE		
ALL	128	GEAR, CABANE, AND SHOCK STRUT BOLTS AND NUTS - Visually inspect for safety.		

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTION

ACFT TYPE		SUPPLEMENTAL 100 HOUR INSPECTION REQUIREMENTS Landing Gear Group Continued	MECH	INSP
ALL	129	SHOCK ABSORBER AND SHOCK CORDS - Visually inspect for broken bands, threads, and weakness.		
ALL	130	TIRES - Visually inspect for cuts, uneven or excessive wear and slippage.		
ALL	131	WHEELS - Remove, clean, check for cracks and defects, clean and repack bearings.		
ALL	132	MAIN WHEEL TIRE PRESSURE - Check pressure.		
ALL	133	BRAKE LINING AND DISKS - Visually inspect for excessive wear.		
ALL	134	BRAKE LINES - Visually inspect for leaks, chafing and security.		
ALL	135	TAIL WHEEL ATTACHMENTS - Visually inspect for tightness and safety.		
ALL	136	TAIL WHEEL FORK - Visually inspect for looseness on bracket.		
ALL	137	TAIL WHEEL TIRE - Visually inspect for cuts and uneven or excessive wear.		
ALL	138	TAIL WHEEL - Remove, Clean, and visually inspect for damage and corrosion. Functionally check tail wheel swivel lock. Repack bearings.		
ALL	139	TAIL WHEEL TIRE PRESSURE - Verify pressure.		
ALL	140	Lubricate per Figure 12-20-01 below.		
ALL	141	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		100 HOUR INSPECTION REQUIREMENTS Return To Service	MECH	INSP
ALL	142	Install engine cowling.		
ALL	143	Install fuselage and empennage access panels.		
ALL	144	Install wing access panels.		
ALL	145	Verify oil level is 7- 8 quarts.		
ALL	146	PERFORM ENGINE RUN-UP - As instructed IAW Operational/Functional Check. After completing, perform a walk around to detect fluid leaks or other discrepancies		
ALL	147	Verify all Airworthiness Directives are complied with .		
ALL	148	Verify all Cub Crafters' Service Letters, Bulletins, and Instructions are complied with.		
ALL	149	Verify The Aircraft's Documentation is In Order: - Airworthiness Certificate - Registration - Pilot's Operating Handbook and Aircraft Flight Manual - Weight and Balance - Equipment List		

LUBRICATION CHART		
ITEM	SUGGESTED	SPEC
ENGINE		
Engine Oil	Appropriate for temperature	See 12-00 Table 1
Spark Plug Thread Lubricant	Champion Aerospace # 2612	
Oil Filter Gasket	Dow Corning 4 Lubricant	MIL-S-8660C
Engine Controls	LPS 2	MIL-C-16173E GRADE 3 CLASS I
COCKPIT		
Hydraulic Fluid (Brake)	Any Brand	MIL-H-5606
Control Stick Pivot Points Torque Tube Bearings	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Elevator Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Pedal Pivot Points Brake Pedal Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Handle Shaft	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Door Hinges	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
Fuel Selector O-Rings	Dow Corning 4 Lubricant	MIL-S-8660C
FUSELAGE		
Flap Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Stabilizer Jackscrew	Mobilgrease 28	MIL-G-81322E
Trim Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
LANDING GEAR		
Main Landing Gear Shock Strut Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Landing Gear Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Wheel Bearings	Mobilgrease 28	MIL-G-81322E
Tail Wheel Swivel	Mobilgrease 28	MIL-G-81322E
Tail Wheel Bearings	Mobilgrease 28	MIL-G-81322E
EMPENNAGE		
Stabilizer Tube Liners	Mobilgrease 28	MIL-G-81322E
Elevator Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
WING		
Aileron and Flap Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Bellcrank, Pushrod and Hinge Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I

Figure 12-20-1 - Lubrication Chart

Item	Specifications			Capacity
Fuel	100 LL or 100			50 U.S. Gallons Total 44 U.S. Gallons Usable
Oil (See note below)	Average Ambient Temperature	J-1966 SAE Grades Mineral Grades	J-1899 SAE Grades Ashless Dispersant	8 Quarts
	All temperatures	----	15W-50 or 20W-50	
	Above 80°F	60	60	
	Above 60°F	50	40 or 50	
	30°F to 90°F	40	40	
	0°F to 70°F	30	30, 40, or 20W-40	
	Below 10°F	20	30 or 20W-30	
Hydraulic Fluid	MIL-H-5606			As required
Main Tire Pressure	Goodyear 8.50 x 6-6		Dry Air	18 ± 2 psi
	Goodyear 26 x 10.5 x 6		Dry Air	12 ± 2 psi
Tail Wheel Tire	Scott 3200		Dry Air	38 ± 5 psi

12-00 Table 1 - Fuel, Oil, Brake Fluid, and Tire Pressure

NOTE

The engine must be operated on mineral oil during the first 50 hours of operation, or until oil consumption has been stabilized. Additive part number LW-16702 may be used on Lycoming engines. For further information refer to latest revision of Textron Lycoming Service Instruction SI No. 1014 and Superior report SVOM01.

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTIONS

ZONE	ACFT TYPE		SUPPLEMENTAL 100 HOUR INSPECTION REQUIREMENTS	MECH	INSP
ARCTIC	ALL	150	Floats - Inspect as required by OEM ICAs.		
ARCTIC	ALL	151	Skis - Inspect as required by OEM ICAs.		
ARCTIC	ALL	152	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
ARCTIC		153			
ARCTIC		154			
ARCTIC		155			
ARCTIC		156			
ARCTIC		157			
ARCTIC		158			
ARCTIC		159			
ARCTIC		160			
ARCTIC		161			
ARCTIC		162			
ARCTIC		163			
TEMPERATE	ALL	164	Floats - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	165	Skis - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	166	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
TEMPERATE		167			
TEMPERATE		168			
TEMPERATE		169			
TEMPERATE		170			
TEMPERATE		171			
TEMPERATE		172			
TEMPERATE		173			
TEMPERATE		174			
TEMPERATE		175			
TEMPERATE		176			
TEMPERATE		177			
	ALL	178	All panels opened for the inspection are closed and secure.		
	ALL	179	Run aircraft engine and leak check.		

DOI - TOP CUB AND SUPER CUB SERIES - 100 HOUR INSPECTIONS

NOTES:

ASSURE PROPER MAINTENANCE RECORD ENTRIES HAVE BEEN MADE IAW 14 CFR 43.9

THE AIRCRAFT RECORDS CONSIST OF THE FOLLOWING;

1. AIRCRAFT, ENGINE & PROPELLER HARD LOGS.
2. ALL FORM 337'S, MAJOR REPAIR & ALTERATION.
3. COMPLIANCE LIST OF ALL PERTINENT AIRWORTHINESS DIRECTIVES.
4. MAINTENANCE SCHEDULE- LIST OF REQUIRED SPECIAL INSPECTIONS, COMPONENT OVERHAUL & TIME-LIFE LIMITS.
5. CURRENT & HISTORICAL WEIGHT & BALANCE STATUS & EQUIPMENT LIST
7. MINIMUM EQUIPMENT LIST AS REQUIRED.
8. SPECIAL FLIGHT AUTHORIZATIONS AND/OR SUPPLEMENTS

UNITED STATES DEPARTMENT OF THE INTERIOR

TOP CUB AND SUPER CUB SERIES

ANNUAL SCHEDULED MAINTENANCE CHECKS
50 HOUR AND 100 HOUR INSPECTIONS INCLUDED WITHIN THIS ANNUAL INSPECTION CHECKLIST

THE INSPECTION WORK SHEETS / PACKAGES IN THIS DOCUMENT ARE FOR THE 'UNITED STATES DEPARTMENT OF THE INTERIOR' AIRCRAFT ONLY.

Inspection Sheet - Block Explanation

Example

ACFT TYPE		EXAMPLE INSPECTION REQUIREMENTS	MECH	INSP
ALL	1	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	2	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	3	FLOAT INSTALLATION - Check float exterior for damage, wrinkled metal, corrosion, paint loss, etc. Inspect strut attach fittings, spreader bars & interior float structure.	N/A	
A	**B**	**C**	**D**	**E**

Block A ALL - All Top Cub and Super Cub Series aircraft.
TOP CUB - All Top Cub Series aircraft.
SUPER CUB - All Super Cub Series aircraft

Block B Each inspection and task is given a line item number in the 2nd column.

Block C Describes inspection tasks.

Block D Mechanic sign-off block.
N/A (Not Applicable) - should be used if the inspection cannot or should not be carried out due to (but not limited to) -
1. Serial number range.
2. Unit or option not installed on aircraft.
3. Previously complied with.
4. Climate zone applicability.

A note beside the N/A to indicate the reason for it is recommended.

Block E The (white) INSP block should be initialed by an inspector who witnessed the task carried out by the mechanic and completed a final inspection and/or functional check in accordance with the line item requirements and relevant technical publications. The inspector shall not initial the INSP block until after the mechanic has initialed the MECH block. In a block that requires a Maintenance Inspector, he shall initial the white INSP block whenever N/A has been entered in the MECH block.

Climate Zone Supplemental Inspections and Servicing

Before commencing inspection and servicing, it must be confirmed which climate zone the subject aircraft is operated in. If the aircraft is above the 49th parallel it is in the Arctic Zone. If the aircraft is below the 49th parallel it is in the Temperate zone. The extra line items listed for the appropriate climate zone shall be added to the servicing, the not applicable climate zone line items shall be noted as N/A in the sign-off block.

Inspections: To be completed in accordance with this manual.

Repairs: To be completed in accordance with the appropriate Kodiak Maintenance Manual.

Acronyms in use

SID -	Supplemental Inspection Document	STC -	Supplemental Type Certificate
CPCP -	Corrosion Prevention and Control Program	PSE -	Principle Structural Element
NDI -	Non Destructive Inspection	N/A -	Not Applicable (see MECH Block D above)
ICA -	Instruction for Continued Airworthiness	OEM -	Original Equipment Manufacturer

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTION

ANNUAL INCLUDES ALL 100 HOUR AND 50 HOUR INSPECTIONS

'N' NUMBER:_____ MODEL: _____ AIRCRAFT S/N:_____

TACH HOURS:_____ AIRCRAFT TOTAL TIME:_____ ENG. SMOH:_____ PROP SMOH:_____

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Visual Pre-Inspection	MECH	INSP
ALL	1	Review compliance with current Federal Aviation Regulations, including visual inspection of: - Aircraft Flight Manual - Aircraft Log Book - Registration Certificate - Weight and Balance Record - Aircraft Equipment List - FAA Airworthiness Directives - Cub Crafters' Service Documents - ICAs		
ALL	2	Each person performing this inspection shall, before that inspection, remove or open all necessary inspection plates, access doors, fairing, and cowling. He shall thoroughly clean the aircraft and aircraft engine.		
ALL	3	Visual Inspection of Aircraft		
ALL	4	Check Oil Quantity.		
ALL	5	Conduct operational check as instructed below.		
ALL	6	PERFORM WALK-AROUND TO DETECT FLUID LEAKS - Make record of all malfunctions and discrepancies		

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Operational/Functional Pre/Post-Inspection	MECH		INSP
			PRE	POST	
ALL	7	FLIGHT CONTROLS - Check controls operate in the correct direction. Ensure movement through full range of travel without binding and there is no excessive friction.			
ALL	8	FLAPS - Lower flaps to the first and second notches. Ensure the notches hold.			
ALL	9	ELEVATOR TRIM CONTROLS - Ensure it operates through full range of travel without binding.			
ALL	10	ENGINE CONTROLS - Ensure movement through full range of travel without binding.			
ALL	11	ALTIMETER - Must indicate within 50 feet of field elevation when set to correct barometric pressure.			
ALL	12	VERTICAL SPEED INDICATOR (VSI) - Must indicate zero.			
ALL	13	BATTERY MASTER SWITCH - Switch On. Verify Voltage. Flag on turn coordinator should disappear.			
ALL	14	START ENGINE - Start engine using procedure in Pilot's Operating Handbook, Section 4.			
ALL	15	SET 1700 RPM - Perform magneto check. Drop not to exceed 175 RPM or 50 RPM differential between magnetos. There should be no engine roughness.			
ALL	16	PULL CARBURETOR HEAT KNOB - Engine RPM should show a slight drop.			
ALL	17	APPLY A LOAD TO THE ELECTRICAL SYSTEM (e.g. switch on landing lights or pitot heat) - Observe that voltage remains constant and amperage increases when load is applied.			
ALL	18	CHECK VACUUM PRESSURE (if vacuum pump is installed) - Normal reading is between 4.8 and 5.2 inches of mercury.			
ALL	19	Check the radio for proper Nav and Com operation.			
ALL	20	Check the Transponder for proper operation.			
ALL	21	Verify proper ELT operation using the remote switch.			
ALL	22	SET THROTTLE TO IDLE - Engine should idle between 500 and 750 RPM.			

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTION

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Operational/Functional Pre/Post-Inspection Continued	MECH		INSP
			PRE	POST	
ALL	23	Set 1000 RPM.			
ALL	24	Turn engine off by slowly pulling mixture control. **NOTE:** An increase in RPM prior to the control reaching idle cut-off position indicates proper air fuel mixture.			

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Engine Group	MECH	INSP
ALL	25	ENGINE COWL - Remove, clean and check for cracks distortion, loose, or missing fasteners		
ALL	26	STUDS AND NUTS - For improper torquing and obcious defects.		
ALL	27	ENGINE OIL - Drain		
ALL	28	SUCTION OIL STRAINER - Visual Inspection for Foreign Particles		
ALL	29	OIL TEMPERATURE SENDER UNIT - Check for Leaks and Security.		
ALL	30	ENGINE OIL - Fill with 8 Quarts IAW appropriate manual.		
ALL	31	MUFFLER, HEAT EXCHANGER, AND HOSES - Remove shroud and conduct a visual inspection.		
ALL	32	OIL LINES AND FITTINGS - Check for Leaks, Security, Chafing, Dents, and Cracks		
ALL	33	OIL RADIATOR - Clean and Check Cooling Fins for Damage		
ALL	34	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	35	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	36	CYLINDERS - Visual Inspection for Cracked or Broken Fins		
ALL	37	ELECTRICAL WIRING TO ENGINE AND ACCESSORIES - Conduct a visual inspection. Replace damaged wires and clamps. Inspect terminals for security and cleanliness.		
ALL	38	IGNITION HARNESS AND INSULATORS - Visually inspect for high tension leaks and continuity.		
ALL	39	MAGNETOS - Check magneto to engine timing and adjust, if needed.		
ALL	40	MAGNETOS - Inspect plug wires and P-lead for condition and security. Verify vent hole is clean and clear of obstructions.		
ALL	41	INDUCTION AIR FILTER - Remove, Inspect, and Clean. Replace when filter is more than 50% covered by foreign material.		
ALL	42	CARBURETOR - Drain and clean inlet line fuel strainer.		
ALL	43	INDUCTION AIR BOX - Visually inspect for condition.		
ALL	44	INTAKE SEALS - Visually inspect for leaks and clamps for tightness.		
ALL	45	FLEXIBLE FUEL AND PRIMER LINES - Visually inspection for condition.		
ALL	46	THROTTLE, MIXTURE CONTROLS - Visually inspect for proper travel and operating condition.		
ALL	47	EXHAUST STACKS, CONNECTIONS, GASKETS AND BRACES - Visually Inspect and replace exhaust gaskets, as required.		
ALL	48	OIL BREATHER TUBE - Visually Inspect for obstructions and security.		
ALL	49	CRANKCASE - Visually inspect for cracks, leaks, and security of case bolts.		
ALL	50	ENGINE MOUNTS - Visually Inspect for cracks, distortion and security.		

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTION

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Engine Group Continued	MECH	INSP
ALL	51	ENGINE BAFFLES - Visually inspect for damage and security.		
ALL	52	RUBBER ENGINE MOUNT BUSHINGS - Visually inspect for deterioration.		
ALL	53	FIREWALL AND SEALS - Visually inspect.		
ALL	54	CABIN HEATER CONTROL - Visually inspect.		
ALL	55	ALTERNATOR - Visually inspect for condition, security, and tension of drive belt.		
ALL	56	STARTER - Visually Inspect for condition and security.		
ALL	57	ENGINE CONTROLS - Check for defects, travel from stop to stop, improper safetying and lubricate.		
ALL	58	ENGINE CONTROLS - Check travel from stop to stop and lubricate.		
ALL	59	ENGINE COWL - Install, ensuring good clearance.		
ALL	60	VACUUM PUMP FILTER (if optional vacuum pump is installed) - Visually Inspect for excessive contamination.		
ALL	61	ALL SYSTEMS - Check for improper installation poor condition, apparent and obvious defects, and insecurity of attachment.		
ALL	62	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Propeller Group – Metal	MECH	INSP
THIS INSPECTION SHEET IS APPLICABLE TO THE SENSENICH PROPELLER MANUFACTURING CO. MODEL 76EM8 PROPELLER AND MCCAULEY PROPELLER SYSTEMS 1A200/FA82.				
ALL	63	SPINNER AND BULKHEADS - Visually inspect for damage and security.		
ALL	64	PROPELLER BLADES - Visually inspect for nicks and cracks.		
ALL	65	SPINNER MOUNTING BRACKETS - Visually inspect for damage and security.		
ALL	66	PROPELLER MOUNTING BOLTS - Visually inspect. If safety wire is broken, check torque.		
ALL	67	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Cabin Group	MECH	INSP
ALL	68	DOORS - Visually Inspect for damage, operation, and security.		
ALL	69	DOOR LATCHES AND HINGES - Visually inspect and lubricate.		
ALL	70	CABIN WINDOWS AND WINDSHIELD - Clean and visually inspect for cracking, crazing, and general condition.		
ALL	71	UPHOLSTERY - Visually inspect for tears and fraying.		
ALL	72	SEAT BELTS, INERTIA REEL, AND HARNESSES - Visually inspect.		
ALL	73	PILOT SEAT - Visually inspect and verify latch security.		
ALL	74	CONTROL BUSHINGS, CABLES, AND PULLEYS (including control stick and torque tube) - Visually inspect. Lubricate bearing surfaces only.		

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTION

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Cabin Group Continued	MECH	INSP
ALL	75	ELEVATOR TRIM - Visually inspect complete system. Conduct operational check and lubricate shaft only.		
ALL	76	FUEL LINES AND GAUGES - Visually inspect for leaks, chaffing, obstruction, security, and general condition.		
ALL	77	FLAP LEVER - Conduct operational check, visually inspect ratchet and latch through the range of operation, and lubricate shaft.		
ALL	78	RUDDER PEDALS - Conduct operational check and lubricate.		
ALL	79	THROTTLE - Verify freedom of movement and ensure the throttle contacts engine stops.		
ALL	80	MIXTURE - Verify freedom of movement and ensure it contacts engine stops.		
ALL	81	CARBURETOR HEAT CONTROL - Verify freedom of movement and ensure full travel.		
ALL	82	CABIN HEATER- Verify freedom of movement and ensure full travel.		
ALL	83	EMERGENCY LOCATOR TRANSMITTER - Conduct functional inspection.		
ALL	84	PLACARDS AND INSTRUMENT MARKINGS - Visually inspect for conformity, security, and condition.		
ALL	85	INSTRUMENT PANEL - Visually inspect for security of lines and wiring.		
ALL	86	PITOT SYSTEM - Visually inspect lines for leaks and chaffing. Conduct an operational inspection of heater. **CAUTION: PITOT TUBE WILL BECOME VERY HOT AND COULD CAUSE BURNS.**		
ALL	87	STROBE, LANDING, TAXI AND NAVIGATION LIGHTS - Visually inspect for condition and security. Conduct an operational inspection.		
ALL	88	STALL WARNING - Conduct operational inspection.		
ALL	89	ANTENNAS - Visually inspect for condition and security.		
ALL	90	BRAKE CYLINDERS AND PARKING VALVES - Conduct operational and visual inspections for leaks. Fill with fluid, as required.		
ALL	91	INTERIOR LIGHTS - Conduct a functional check of instrument, placard and post lights.		
ALL	92	GENERALLY - Inspect for uncleanliness and loose equipment that might foul the controls.		
ALL	93	RADIO AND ELECTRONIC EQUIPMENT - Check for improper installation and insecure mounting.		
ALL	94	WIRING AND CONDUITS - Check for improper routing, insecure mounting, and obvious defects.		
ALL	95	BONDING AND SHIELDING - Check for improper installation and poor condition.		
ALL	96	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Fuselage and Empennage Group	MECH	INSP
ALL	97	FABRIC AND FINISH - Visually inspect for cracks and deterioration.		
ALL	98	BATTERY, BOX, AND CABLES - Conduct a visual inspection.		
ALL	99	FUEL LINES - Visually inspect for security and damage.		
ALL	100	FUSELAGE FRAME TUBING, LONGERONS, AND STRINGERS - Conduct visual inspection for damage and corrosion.		
ALL	101	RUDDER, ELEVATOR AND STABILIZER TRIM CABLES, TURNBUCKLES, GUIDES, AND PULLEYS - Inspect for tension, safety, wear, damage, corrosion, and operation.		
ALL	102	STABILIZER YOKE AND SCREW - Visually inspect for end play, security, and excessive wear.		

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTION

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Fuselage and Empennage Group Continued	MECH	INSP
ALL	103	RUDDER, STABILIZER, AND ELEVATOR STRUCTURES - Visually inspect for damage.		
ALL	104	RUDDER HINGE PINS AND BUSHINGS - Visually inspect for excess wear, and corrosion.		
ALL	105	ELEVATOR HINGE PINS AND BUSHINGS - Visually inspect for excess wear, and corrosion.		
ALL	106	STABILIZER BRACE WIRES - Visually inspect for corrosion, tightness, and safety.		
ALL	107	Lubricate per Figure 12-20-01 below.		
ALL	108	SYSTEMS AND COMPONENTS - Check for improper installation, apparent defects, and unsatisfactory operation.		
ALL	109	VORTEX GENERATORS - (If Applicable) Check for missing, replace as necessary IAW applicable manual.		
ALL	110	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Wing Group	MECH	INSP
ALL	111	FABRIC AND FINISH - Visually inspect for poor general condition, fabric or skin deterioration, evidence of failure, and insecurity of attachment.		
ALL	112	AILERON, FLAP, AND WING STRUCTURE - Visually inspect for damage.		
ALL	113	FUEL TANKS, CAPS, SCUPPER RINGS, AND LINES - Visually inspect for damage, leaks and deterioration.		
ALL	114	WING ATTACHMENT BOLTS - Visually inspect for security.		
ALL	115	LIFT AND JURY STRUTS - Visually inspect for security.		
ALL	116	LIFT STRUT FORKS - Visually inspect for damage and security.		
ALL	117	AILERON AND FLAP CABLES, TURNBUCKLES, GUIDES, AND PULLEYS - Visually inspect for safety, damage, corrosion, and operation.		
ALL	118	AILERONS ATTACHMENTS AND BRACKETS - Visually inspect for tightness and damage.		
ALL	119	AILERON HINGE PINS AND BLOCKS - Visually inspect for excess wear and corrosion.		
ALL	120	FLAP ATTACHMENTS AND BRACKETS - Visually inspect for tightness and damage.		
ALL	121	FLAP BELLCRANK, CONTROL ROD, SPRING PINS, AND BLOCKS - Conduct a visual inspection.		
ALL	122	Lubricate per Figure 12-20-01 below.		
ALL	123	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		
ALL	124	VORTEX GENERATORS - (If Applicable) Check for missing, replace as necessary IAW applicable manual.		

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Landing Gear Group	MECH	INSP
ALL	124	FABRIC AND FINISH - Visual inspection for cracks and deterioration.		
ALL	125	JACK AIRPLANE		
ALL	126	GEAR, CABANE, AND SHOCK STRUT BOLTS AND NUTS - Visually inspect for safety.		
ALL	127	Shock Absorber and Shock Cords: SHOCK ABSORBER AND SHOCK CORDS - Visually inspect for broken bands, threads, and weakness.		

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTION

ACFT TYPE		SUPPLEMENTAL ANNUAL INSPECTION REQUIREMENTS Landing Gear Group Continued	MECH	INSP
ALL	128	TIRES - Visually inspect for cuts, uneven or excessive wear and slippage.		
ALL	129	WHEELS - Remove, clean, check for cracks and defects, clean and repack bearings.		
ALL	130	MAIN WHEEL TIRE PRESSURE - Check pressure.		
ALL	131	BRAKE LINING AND DISKS - Visually inspect for excessive wear.		
ALL	132	BRAKE LINES - Visually inspect for leaks, chafing and security.		
ALL	133	TAIL WHEEL ATTACHMENTS - Visually inspect for tightness and safety.		
ALL	134	TAIL WHEEL FORK - Visually inspect for looseness on bracket.		
ALL	135	TAIL WHEEL TIRE - Visually inspect for cuts and uneven or excessive wear.		
ALL	136	TAIL WHEEL - Remove, Clean, and visually inspect for damage and corrosion. Functionally check tail wheel swivel lock. Repack bearings.		
ALL	137	TAIL WHEEL TIRE PRESSURE - Verify pressure.		
ALL	138	Lubricate per Figure 12-20-01 below.		
ALL	139	Each person performing this inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.		

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Return To Service	MECH	INSP
ALL	140	Install engine cowling.		
ALL	141	Install fuselage and empennage access panels.		
ALL	142	Install wing access panels.		
ALL	143	Verify oil level is 7- 8 quarts.		
ALL	144	PERFORM ENGINE RUN-UP - As instructed IAW Operational/Functional Check. After completing, perform a walk around to detect fluid leaks or other discrepancies		
ALL	145	Verify all Airworthiness Directives are complied with .		
ALL	146	Verify all Cub Crafters' Service Letters, Bulletins, and Instructions are complied with.		
ALL	147	Verify The Aircraft's Documentation is In Order: - Airworthiness Certificate - Registration - Pilot's Operating Handbook and Aircraft Flight Manual - Weight and Balance - Equipment List		

LUBRICATION CHART		
ITEM	SUGGESTED	SPEC
ENGINE		
Engine Oil	Appropriate for temperature	See 12-00 Table 1
Spark Plug Thread Lubricant	Champion Aerospace # 2612	
Oil Filter Gasket	Dow Corning 4 Lubricant	MIL-S-8660C
Engine Controls	LPS 2	MIL-C-16173E GRADE 3 CLASS I
COCKPIT		
Hydraulic Fluid (Brake)	Any Brand	MIL-H-5606
Control Stick Pivot Points Torque Tube Bearings	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Elevator Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Pedal Pivot Points Brake Pedal Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Handle Shaft	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Door Hinges	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
Fuel Selector O-Rings	Dow Corning 4 Lubricant	MIL-S-8660C
FUSELAGE		
Flap Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Stabilizer Jackscrew	Mobilgrease 28	MIL-G-81322E
Trim Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
LANDING GEAR		
Main Landing Gear Shock Strut Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Landing Gear Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Wheel Bearings	Mobilgrease 28	MIL-G-81322E
Tail Wheel Swivel	Mobilgrease 28	MIL-G-81322E
Tail Wheel Bearings	Mobilgrease 28	MIL-G-81322E
EMPENNAGE		
Stabilizer Tube Liners	Mobilgrease 28	MIL-G-81322E
Elevator Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
WING		
Aileron and Flap Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Bellcrank, Pushrod and Hinge Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I

Figure 12-20-1 - Lubrication Chart

Item	Specifications			Capacity
Fuel	100 LL or 100			50 U.S. Gallons Total 44 U.S. Gallons Usable
Oil **(See note below)**	Average Ambient Temperature	J-1966 SAE Grades Mineral Grades	J-1899 SAE Grades Ashless Dispersant	8 Quarts
	All temperatures	----	15W-50 or 20W-50	
	Above 80°F	60	60	
	Above 60°F	50	40 or 50	
	30°F to 90°F	40	40	
	0°F to 70°F	30	30, 40, or 20W-40	
	Below 10°F	20	30 or 20W-30	
Hydraulic Fluid	MIL-H-5606			As required
Main Tire Pressure	Goodyear 8.50 x 6-6		Dry Air	18 ± 2 psi
	Goodyear 26 x 10.5 x 6		Dry Air	12 ± 2 psi
Tail Wheel Tire	Scott 3200		Dry Air	38 ± 5 psi

12-00 Table 1 - Fuel, Oil, Brake Fluid, and Tire Pressure

NOTE

The engine must be operated on mineral oil during the first 50 hours of operation, or until oil consumption has been stabilized. Additive part number LW-16702 may be used on Lycoming engines. For further information refer to latest revision of Textron Lycoming Service Instruction SI No. 1014 and Superior report SVOM01.

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTIONS

ZONE	ACFT TYPE		SUPPLEMENTAL ANNUAL INSPECTION REQUIREMENTS	MECH	INSP
ARCTIC	ALL	148	Floats - Inspect as required by OEM ICAs.		
ARCTIC	ALL	149	Skis - Inspect as required by OEM ICAs.		
ARCTIC	ALL	150	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
ARCTIC		151			
ARCTIC		152			
ARCTIC		153			
ARCTIC		154			
ARCTIC		155			
ARCTIC		156			
ARCTIC		157			
ARCTIC		158			
ARCTIC		159			
ARCTIC		160			
ARCTIC		161			
ARCTIC		162			
TEMPERATE	ALL	163	Floats - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	164	Skis - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	165	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
TEMPERATE		166			
TEMPERATE		167			
TEMPERATE		168			
TEMPERATE		169			
TEMPERATE		170			
TEMPERATE		171			
TEMPERATE		172			
TEMPERATE		173			
TEMPERATE		174			
TEMPERATE		175			
	ALL	176	All panels opened for the inspection are closed and secure.		
	ALL	177	Run aircraft engine and leak check.		

DOI - TOP CUB AND SUPER CUB SERIES - ANNUAL INSPECTIONS

NOTES:

ASSURE PROPER MAINTENANCE RECORD ENTRIES HAVE BEEN MADE IAW 14 CFR 43.9

THE AIRCRAFT RECORDS CONSIST OF THE FOLLOWING;

1. AIRCRAFT, ENGINE & PROPELLER HARD LOGS.
2. ALL FORM 337'S, MAJOR REPAIR & ALTERATION.
3. COMPLIANCE LIST OF ALL PERTINENT AIRWORTHINESS DIRECTIVES.
4. MAINTENANCE SCHEDULE- LIST OF REQUIRED SPECIAL INSPECTIONS, COMPONENT OVERHAUL & TIME-LIFE LIMITS.
5. CURRENT & HISTORICAL WEIGHT & BALANCE STATUS & EQUIPMENT LIST
7. MINIMUM EQUIPMENT LIST AS REQUIRED.
8. SPECIAL FLIGHT AUTHORIZATIONS AND/OR SUPPLEMENTS

UNITED STATES DEPARTMENT OF THE INTERIOR

TOP CUB AND SUPER CUB SERIES

500 HOUR SCHEDULED MAINTENANCE CHECKS

THE INSPECTION WORK SHEETS / PACKAGES IN THIS DOCUMENT ARE FOR THE 'UNITED STATES DEPARTMENT OF THE INTERIOR' AIRCRAFT ONLY.

Inspection Sheet - Block Explanation

Example

ACFT TYPE		EXAMPLE INSPECTION REQUIREMENTS	MECH	INSP
ALL	1	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	2	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	3	FLOAT INSTALLATION - Check float exterior for damage, wrinkled metal, corrosion, paint loss, etc. Inspect strut attach fittings, spreader bars & interior float structure.	N/A	
A	**B**	**C**	**D**	**E**

Block A ALL - All Top Cub and Super Cub Series aircraft.
TOP CUB - All Top Cub Series aircraft.
SUPER CUB - All Super Cub Series aircraft

Block B Each inspection and task is given a line item number in the 2nd column.

Block C Describes inspection tasks.

Block D Mechanic sign-off block.
N/A (Not Applicable) - should be used if the inspection cannot or should not be carried out due to (but not limited to) -

1. Serial number range.
2. Unit or option not installed on aircraft.
3. Previously complied with.
4. Climate zone applicability.

A note beside the N/A to indicate the reason for it is recommended.

Block E The (white) INSP block should be initialed by an inspector who witnessed the task carried out by the mechanic and completed a final inspection and/or functional check in accordance with the line item requirements and relevant technical publications. The inspector shall not initial the INSP block until after the mechanic has initialed the MECH block. In a block that requires a Maintenance Inspector, he shall initial the white INSP block whenever N/A has been entered in the MECH block.

Climate Zone Supplemental Inspections and Servicing

Before commencing inspection and servicing, it must be confirmed which climate zone the subject aircraft is operated in. If the aircraft is above the 49th parallel it is in the Arctic Zone. If the aircraft is below the 49th parallel it is in the Temperate zone. The extra line items listed for the appropriate climate zone shall be added to the servicing, the not applicable climate zone line items shall be noted as N/A in the sign-off block.

Inspections: To be completed in accordance with this manual.

Repairs: To be completed in accordance with the appropriate Kodiak Maintenance Manual.

Acronyms in use

SID -	Supplemental Inspection Document	STC -	Supplemental Type Certificate
CPCP -	Corrosion Prevention and Control Program	PSE -	Principle Structural Element
NDI -	Non Destructive Inspection	N/A -	Not Applicable (see MECH Block D above)
ICA -	Instruction for Continued Airworthiness	OEM -	Original Equipment Manufacturer

DOI - TOP CUB AND SUPER CUB SERIES - 500 HOUR INSPECTION

'N' NUMBER:_____ MODEL: _____ AIRCRAFT S/N:_____

TACH HOURS:_____ AIRCRAFT TOTAL TIME:_____ ENG. SMOH:_____ PROP SMOH:_____

ACFT TYPE		500 HOUR INSPECTION REQUIREMENTS Visual Pre-Inspection	MECH	INSP
ALL	1	Visual Inspection of Aircraft		

ACFT TYPE		500 HOUR INSPECTION REQUIREMENTS Operational/Functional Pre/Post-Inspection	MECH		INSP
			PRE	POST	
ALL	2	FLIGHT CONTROLS - Check controls operate in the correct direction. Ensure movement through full range of travel without binding and there is no excessive friction.			
ALL	3	FLAPS - Lower flaps to the first and second notches. Ensure the notches hold.			
ALL	4	ELEVATOR TRIM CONTROLS - Ensure it operates through full range of travel without binding.			
ALL	5	ENGINE CONTROLS - Ensure movement through full range of travel without binding.			
ALL	6	ALTIMETER - Must indicate within 50 feet of field elevation when set to correct barometric pressure.			
ALL	7	VERTICAL SPEED INDICATOR (VSI) - Must indicate zero.			
ALL	8	BATTERY MASTER SWITCH - Switch On. Verify Voltage. Flag on turn coordinator should disappear.			
ALL	9	START ENGINE - Start engine using procedure in Pilot's Operating Handbook, Section 4.			
ALL	10	SET 1700 RPM - Perform magneto check. Drop not to exceed 175 RPM or 50 RPM differential between magnetos. There should be no engine roughness.			
ALL	11	PULL CARBURETOR HEAT KNOB - Engine RPM should show a slight drop.			
ALL	12	APPLY A LOAD TO THE ELECTRICAL SYSTEM (e.g. switch on landing lights or pitot heat) - Observe that voltage remains constant and amperage increases when load is applied.			
ALL	13	CHECK VACUUM PRESSURE (if vacuum pump is installed) - Normal reading is between 4.8 and 5.2 inches of mercury.			
ALL	14	Check the radio for proper Nav and Com operation.			
ALL	15	Check the Transponder for proper operation.			
ALL	16	Verify proper ELT operation using the remote switch.			
ALL	17	SET THROTTLE TO IDLE - Engine should idle between 500 and 750 RPM.			
ALL	18	Set 1000 RPM.			
ALL	19	Turn engine off by slowly pulling mixture control. **NOTE:** An increase in RPM prior to the control reaching idle cut-off position indicates proper air fuel mixture.			

ACFT TYPE		ANNUAL INSPECTION REQUIREMENTS Engine Group	MECH	INSP
ALL	20	INDUCTION AIR FILTER - Replace		
ALL	21	SLICK MAGNETO - Inspect R/H and L/H magnetos IAW appropriate manual.		

ACFT TYPE		500 HOUR INSPECTION REQUIREMENTS Landing Gear Group	MECH	INSP
ALL	22	Lubricate per Figure 12-20-01 below.		

DOI - TOP CUB AND SUPER CUB SERIES - 500 HOUR INSPECTIONS

ACFT TYPE		500 HOUR INSPECTION REQUIREMENTS Return To Service	MECH	INSP
ALL	23	Verify oil level is 7- 8 quarts.		

LUBRICATION CHART

ITEM	SUGGESTED	SPEC
ENGINE		
Engine Oil	Appropriate for temperature	See 12-00 Table 1
Spark Plug Thread Lubricant	Champion Aerospace # 2612	
Oil Filter Gasket	Dow Corning 4 Lubricant	MIL-S-8660C
Engine Controls	LPS 2	MIL-C-16173E GRADE 3 CLASS I
COCKPIT		
Hydraulic Fluid (Brake)	Any Brand	MIL-H-5606
Control Stick Pivot Points Torque Tube Bearings	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Elevator Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Pedal Pivot Points Brake Pedal Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Handle Shaft	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Door Hinges	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
Fuel Selector O-Rings	Dow Corning 4 Lubricant	MIL-S-8660C
FUSELAGE		
Flap Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Stabilizer Jackscrew	Mobilgrease 28	MIL-G-81322E
Trim Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
LANDING GEAR		
Main Landing Gear Shock Strut Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Landing Gear Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Wheel Bearings	Mobilgrease 28	MIL-G-81322E
Tail Wheel Swivel	Mobilgrease 28	MIL-G-81322E
Tail Wheel Bearings	Mobilgrease 28	MIL-G-81322E
EMPENNAGE		
Stabilizer Tube Liners	Mobilgrease 28	MIL-G-81322E
Elevator Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
WING		
Aileron and Flap Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Bellcrank, Pushrod and Hinge Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I

Figure 12-20-1 - Lubrication Chart

Item	Specifications			Capacity
Fuel	100 LL or 100			50 U.S. Gallons Total 44 U.S. Gallons Usable
Oil (See note below)	Average Ambient Temperature	J-1966 SAE Grades Mineral Grades	J-1899 SAE Grades Ashless Dispersant	8 Quarts
	All temperatures	----	15W-50 or 20W-50	
	Above 80°F	60	60	
	Above 60°F	50	40 or 50	
	30°F to 90°F	40	40	
	0°F to 70°F	30	30, 40, or 20W-40	
	Below 10°F	20	30 or 20W-30	
Hydraulic Fluid	MIL-H-5606			As required
Main Tire Pressure	Goodyear 8.50 x 6-6		Dry Air	18 ± 2 psi
	Goodyear 26 x 10.5 x 6		Dry Air	12 ± 2 psi
Tail Wheel Tire	Scott 3200		Dry Air	38 ± 5 psi

12-00 Table 1 - Fuel, Oil, Brake Fluid, and Tire Pressure

NOTE
The engine must be operated on mineral oil during the first 50 hours of operation, or until oil consumption has been stabilized. Additive part number LW-16702 may be used on Lycoming engines. For further information refer to latest revision of Textron Lycoming Service Instruction SI No. 1014 and Superior report SVOM01.

DOI - TOP CUB AND SUPER CUB SERIES - 500 HOUR INSPECTIONS

ZONE	ACFT TYPE		SUPPLEMENTAL 500 HOUR INSPECTION REQUIREMENTS	MECH	INSP
ARCTIC	ALL	24	Floats - Inspect as required by OEM ICAs.		
ARCTIC	ALL	25	Skis - Inspect as required by OEM ICAs.		
ARCTIC	ALL	26	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
ARCTIC		27			
ARCTIC		28			
ARCTIC		29			
ARCTIC		30			
ARCTIC		31			
ARCTIC		32			
ARCTIC		33			
ARCTIC		34			
ARCTIC		35			
ARCTIC		36			
ARCTIC		37			
TEMPERATE	ALL	38	Floats - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	39	Skis - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	40	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
TEMPERATE		41			
TEMPERATE		42			
TEMPERATE		43			
TEMPERATE		44			
TEMPERATE		45			
TEMPERATE		46			
TEMPERATE		47			
TEMPERATE		48			
TEMPERATE		49			
TEMPERATE		50			
TEMPERATE		51			
	ALL	52	All panels opened for the inspection are closed and secure.		
	ALL	53	Run aircraft engine and leak check.		

DOI - TOP CUB AND SUPER CUB SERIES - 500 HOUR INSPECTIONS

NOTES:

ASSURE PROPER MAINTENANCE RECORD ENTRIES HAVE BEEN MADE IAW 14 CFR 43.9

THE AIRCRAFT RECORDS CONSIST OF THE FOLLOWING;

1. AIRCRAFT, ENGINE & PROPELLER HARD LOGS.
2. ALL FORM 337'S, MAJOR REPAIR & ALTERATION.
3. COMPLIANCE LIST OF ALL PERTINENT AIRWORTHINESS DIRECTIVES.
4. MAINTENANCE SCHEDULE- LIST OF REQUIRED SPECIAL INSPECTIONS, COMPONENT OVERHAUL & TIME-LIFE LIMITS.
5. CURRENT & HISTORICAL WEIGHT & BALANCE STATUS & EQUIPMENT LIST
7. MINIMUM EQUIPMENT LIST AS REQUIRED.
8. SPECIAL FLIGHT AUTHORIZATIONS AND/OR SUPPLEMENTS

UNITED STATES DEPARTMENT OF THE INTERIOR

TOP CUB AND SUPER CUB SERIES

2 YEAR SCHEDULED MAINTENANCE CHECKS

THE INSPECTION WORK SHEETS / PACKAGES IN THIS DOCUMENT ARE FOR THE 'UNITED STATES DEPARTMENT OF THE INTERIOR' AIRCRAFT ONLY.

Inspection Sheet - Block Explanation

Example

ACFT TYPE		EXAMPLE INSPECTION REQUIREMENTS	MECH	INSP
ALL	1	SPARK PLUGS - Visual Inspection and Re-Gap as Necessary		
ALL	2	CHECK DIFFERENTIAL CYLINDER COMPRESSION Cylinder 1 _____ Cylinder 2 _____ Cylinder 3 _____ Cylinder 4 _____		
ALL	3	FLOAT INSTALLATION - Check float exterior for damage, wrinkled metal, corrosion, paint loss, etc. Inspect strut attach fittings, spreader bars & interior float structure.	N/A	
A	**B**	**C**	**D**	**E**

Block A ALL - All Top Cub and Super Cub Series aircraft.
TOP CUB - All Top Cub Series aircraft.
SUPER CUB - All Super Cub Series aircraft

Block B Each inspection and task is given a line item number in the 2nd column.

Block C Describes inspection tasks.

Block D Mechanic sign-off block.
N/A (Not Applicable) - should be used if the inspection cannot or should not be carried out due to (but not limited to) -

1. Serial number range.
2. Unit or option not installed on aircraft.
3. Previously complied with.
4. Climate zone applicability.

A note beside the N/A to indicate the reason for it is recommended.

Block E The (white) INSP block should be initialed by an inspector who witnessed the task carried out by the mechanic and completed a final inspection and/or functional check in accordance with the line item requirements and relevant technical publications. The inspector shall not initial the INSP block until after the mechanic has initialed the MECH block. In a block that requires a Maintenance Inspector, he shall initial the white INSP block whenever N/A has been entered in the MECH block.

Climate Zone Supplemental Inspections and Servicing

Before commencing inspection and servicing, it must be confirmed which climate zone the subject aircraft is operated in. If the aircraft is above the 49th parallel it is in the Arctic Zone. If the aircraft is below the 49th parallel it is in the Temperate zone. The extra line items listed for the appropriate climate zone shall be added to the servicing, the not applicable climate zone line items shall be noted as N/A in the sign-off block.

Inspections: To be completed in accordance with this manual.

Repairs: To be completed in accordance with the appropriate Kodiak Maintenance Manual.

Acronyms in use

SID -	Supplemental Inspection Document	STC -	Supplemental Type Certificate
CPCP -	Corrosion Prevention and Control Program	PSE -	Principle Structural Element
NDI -	Non Destructive Inspection	N/A -	Not Applicable (see MECH Block D above)
ICA -	Instruction for Continued Airworthiness	OEM -	Original Equipment Manufacturer

DOI - TOP CUB AND SUPER CUB SERIES - 2 YEAR INSPECTION

'N' NUMBER:_____ MODEL: _____ AIRCRAFT S/N:_____

TACH HOURS:_____ AIRCRAFT TOTAL TIME:_____ ENG. SMOH:_____ PROP SMOH:_____

ACFT TYPE		2 YEAR INSPECTION REQUIREMENTS Visual Pre-Inspection	MECH	INSP
ALL	1	Visual Inspection of Aircraft		

ACFT TYPE		2 YEAR INSPECTION REQUIREMENTS Cabin Group	MECH	INSP
ALL	2	PITOT STATIC, ALTIMETER CERTIFICATION		
ALL	3	TRANSPONDER CERTIFICATION		

ACFT TYPE		2 YEAR INSPECTION REQUIREMENTS Operational/Functional Pre/Post-Inspection	MECH		INSP
			PRE	POST	
ALL	4	FLIGHT CONTROLS - Check controls operate in the correct direction. Ensure movement through full range of travel without binding and there is no excessive friction.			
ALL	5	FLAPS - Lower flaps to the first and second notches. Ensure the notches hold.			
ALL	6	ELEVATOR TRIM CONTROLS - Ensure it operates through full range of travel without binding.			
ALL	7	ENGINE CONTROLS - Ensure movement through full range of travel without binding.			
ALL	8	ALTIMETER - Must indicate within 50 feet of field elevation when set to correct barometric pressure.			
ALL	9	VERTICAL SPEED INDICATOR (VSI) - Must indicate zero.			
ALL	10	BATTERY MASTER SWITCH - Switch On. Verify Voltage. Flag on turn coordinator should disappear.			
ALL	11	START ENGINE - Start engine using procedure in Pilot's Operating Handbook, Section 4.			
ALL	12	SET 1700 RPM - Perform magneto check. Drop not to exceed 175 RPM or 50 RPM differential between magnetos. There should be no engine roughness.			
ALL	13	PULL CARBURETOR HEAT KNOB - Engine RPM should show a slight drop.			
ALL	14	APPLY A LOAD TO THE ELECTRICAL SYSTEM (e.g. switch on landing lights or pitot heat) - Observe that voltage remains constant and amperage increases when load is applied.			
ALL	15	CHECK VACUUM PRESSURE (if vacuum pump is installed) - Normal reading is between 4.8 and 5.2 inches of mercury.			
ALL	16	Check the radio for proper Nav and Com operation.			
ALL	17	Check the Transponder for proper operation.			
ALL	18	Verify proper ELT operation using the remote switch.			
ALL	19	SET THROTTLE TO IDLE - Engine should idle between 500 and 750 RPM.			
ALL	20	Set 1000 RPM.			
ALL	21	Turn engine off by slowly pulling mixture control. **NOTE:** An increase in RPM prior to the control reaching idle cut-off position indicates proper air fuel mixture.			

ACFT TYPE		2 YEAR INSPECTION REQUIREMENTS Landing Gear Group	MECH	INSP
ALL	22	Lubricate per Figure 12-20-01 below.		

DOI - TOP CUB AND SUPER CUB SERIES - 2 YEAR INSPECTIONS

ACFT TYPE		2 YEAR INSPECTION REQUIREMENTS Return To Service	MECH	INSP
ALL	23	Verify oil level is 7- 8 quarts.		

LUBRICATION CHART

ITEM	SUGGESTED	SPEC
ENGINE		
Engine Oil	Appropriate for temperature	See 12-00 Table 1
Spark Plug Thread Lubricant	Champion Aerospace # 2612	
Oil Filter Gasket	Dow Corning 4 Lubricant	MIL-S-8660C
Engine Controls	LPS 2	MIL-C-16173E GRADE 3 CLASS I
COCKPIT		
Hydraulic Fluid (Brake)	Any Brand	MIL-H-5606
Control Stick Pivot Points Torque Tube Bearings	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Elevator Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Pedal Pivot Points Brake Pedal Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Handle Shaft	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Door Hinges	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
Fuel Selector O-Rings	Dow Corning 4 Lubricant	MIL-S-8660C
FUSELAGE		
Flap Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Stabilizer Jackscrew	Mobilgrease 28	MIL-G-81322E
Trim Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
LANDING GEAR		
Main Landing Gear Shock Strut Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Landing Gear Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Main Wheel Bearings	Mobilgrease 28	MIL-G-81322E
Tail Wheel Swivel	Mobilgrease 28	MIL-G-81322E
Tail Wheel Bearings	Mobilgrease 28	MIL-G-81322E
EMPENNAGE		
Stabilizer Tube Liners	Mobilgrease 28	MIL-G-81322E
Elevator Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Rudder Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Fuel Fittings with Pipe Threads	EZ TURN Lubricant	MIL-G-6032D
WING		
Aileron and Flap Hinge Pins	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Aileron Pulley Shafts	LPS 2	MIL-C-16173E GRADE 3 CLASS I
Flap Bellcrank, Pushrod and Hinge Pivot Points	LPS 2	MIL-C-16173E GRADE 3 CLASS I

Figure 12-20-1 - Lubrication Chart

Item	Specifications			Capacity
Fuel	100 LL or 100			50 U.S. Gallons Total 44 U.S. Gallons Usable
Oil **(See note below)**	Average Ambient Temperature	J-1966 SAE Grades Mineral Grades	J-1899 SAE Grades Ashless Dispersant	8 Quarts
	All temperatures	----	15W-50 or 20W-50	
	Above 80°F	60	60	
	Above 60°F	50	40 or 50	
	30°F to 90°F	40	40	
	0°F to 70°F	30	30, 40, or 20W-40	
	Below 10°F	20	30 or 20W-30	
Hydraulic Fluid	MIL-H-5606			As required
Main Tire Pressure	Goodyear 8.50 x 6-6		Dry Air	18 ± 2 psi
	Goodyear 26 x 10.5 x 6		Dry Air	12 ± 2 psi
Tail Wheel Tire	Scott 3200		Dry Air	38 ± 5 psi

12-00 **Table 1 - Fuel, Oil, Brake Fluid, and Tire Pressure**

NOTE

The engine must be operated on mineral oil during the first 50 hours of operation, or until oil consumption has been stabilized. Additive part number LW-16702 may be used on Lycoming engines. For further information refer to latest revision of Textron Lycoming Service Instruction SI No. 1014 and Superior report SVOM01.

DOI - TOP CUB AND SUPER CUB SERIES - 2 YEAR INSPECTIONS

ZONE	ACFT TYPE		SUPPLEMENTAL 2 YEAR INSPECTION REQUIREMENTS	MECH	INSP
ARCTIC	ALL	24	Floats - Inspect as required by OEM ICAs.		
ARCTIC	ALL	25	Skis - Inspect as required by OEM ICAs.		
ARCTIC	ALL	26	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
ARCTIC		27			
ARCTIC		28			
ARCTIC		29			
ARCTIC		30			
ARCTIC		31			
ARCTIC		32			
ARCTIC		33			
ARCTIC		34			
ARCTIC		35			
ARCTIC		36			
ARCTIC		37			
TEMPERATE	ALL	38	Floats - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	39	Skis - Inspect as required by OEM ICAs.		
TEMPERATE	ALL	40	De-ice/Anti-ice System - Inspect as required by OEM ICAs.		
TEMPERATE		41			
TEMPERATE		42			
TEMPERATE		43			
TEMPERATE		44			
TEMPERATE		45			
TEMPERATE		46			
TEMPERATE		47			
TEMPERATE		48			
TEMPERATE		49			
TEMPERATE		50			
TEMPERATE		51			
	ALL	52	All panels opened for the inspection are closed and secure.		
	ALL	53	Run aircraft engine and leak check.		

DOI - TOP CUB AND SUPER CUB SERIES - 2 YEAR INSPECTIONS

NOTES:

ASSURE PROPER MAINTENANCE RECORD ENTRIES HAVE BEEN MADE IAW 14 CFR 43.9

THE AIRCRAFT RECORDS CONSIST OF THE FOLLOWING;

1. AIRCRAFT, ENGINE & PROPELLER HARD LOGS.
2. ALL FORM 337'S, MAJOR REPAIR & ALTERATION.
3. COMPLIANCE LIST OF ALL PERTINENT AIRWORTHINESS DIRECTIVES.
4. MAINTENANCE SCHEDULE- LIST OF REQUIRED SPECIAL INSPECTIONS, COMPONENT OVERHAUL & TIME-LIFE LIMITS.
5. CURRENT & HISTORICAL WEIGHT & BALANCE STATUS & EQUIPMENT LIST
7. MINIMUM EQUIPMENT LIST AS REQUIRED.
8. SPECIAL FLIGHT AUTHORIZATIONS AND/OR SUPPLEMENTS